

Syllabus

Module title:	Pharmacy	ECTS	1
Polish translation:	Farmacja		
Course:	Veterinary Medicine		

Module language:	English	Stage:	1
Form of studies:	<input checked="" type="checkbox"/> intramural <input type="checkbox"/> extramural	Type of module:	<input checked="" type="checkbox"/> basic <input type="checkbox"/> directional
		<input checked="" type="checkbox"/> mandatory <input type="checkbox"/> elective	Semester: 6 <input type="checkbox"/> winter semester <input checked="" type="checkbox"/> summer semester
Academic year:	2022/2023	Catalogue number:	FVM-V-JMSS-06S-B36 22

Module coordinator:	dr n. wet. Wojciech Karlik			
Teachers responsible for the module:	Academic teachers of the Institute of veterinary medicine; Department of preclinical sciences. PhD students in accordance to the internal legal acts; visiting professors; other specialists in the field of study			
Objectives of the module:	Introduction to the basic concepts of general pharmacy. Discussion of applied pharmacy, with a particular focus on the prescription. Detailed description of the pharmaceutical forms of medicines used in veterinary medicine. Legal requirements for the manufacture, distribution, sale and control of medicines. Discussion of the most important active substances found in plant raw materials and excipients used in various pharmaceutical forms of medicines.			
Teaching forms, number of hours:	Lectures; hours 15			
Teaching methods:	Lecture with increased teacher-student interaction. As part of the lecture, the lecturer asks questions on prescription writing and then solves them himself. The student checks whether his solution is correct. Consultation - 1 hour / week. Detailed organization of consultations will be defined by the coordinator of the course at the beginning of semester.			
Formal prerequisites and initial requirements:	Subjects with which the student must have a positive assessment: chemistry, biochemistry, biophysics			
Outcome category	Learning outcomes:	Learning outcomes relative to the course outcomes	Impact on the course outcomes	
Knowledge	W1	Student knows the pharmaceutical law in the field of manufacturing and marketing of veterinary medicines	A.W.19, B.W.7	3
	W2	Student knows the concepts and definitions in the field of general pharmacy	A.W.19	3
	W3	Student knows the rules how to build a prescription, how to write prescription drugs, the characteristics of individual forms of drugs, together with the method of their preparation	A.W.19, A.W.20	3
	W4	Student understand the importance of European and national pharmacopoeia and differences between the pharmacopoeia and the list of authorized medicines	A.W.19	3
	W5	Student knows the most important excipients substances used in pharmaceutical preparations	A.W.19	3
Skills	U1	Student can write a prescription, and explain how to use prescribed drugs	B.U.10, A.U.16	3
	U2	Student can determine the appropriate composition and pharmaceutical form of the prescribed drug to achieve the therapeutic goal	B.U.10, A.U.16	3
Competences	K1	Student prescribes drugs in responsible manner	KS.1	2
	K2	In the selection of the drug student is primarily guided by the well-being of the patient	KS.2, KS.4	2
	K3	Student deepens the knowledge necessary for further education	KS.4, KS.8	1
Learning content ensuring the achievement of learning outcomes:	<p>Topics of lectures: Course description, definitions (product, raw material, substance), legal norms regarding pharmacy, history of pharmacy, pharmacopoeia. [2 hours.]; Construction of a prescription, rules for writing a prescription for drugs. [2 hours.]; Description of individual pharmaceutical forms according to the scheme: definition, characterization of the form, technology of preparation, examples of writing prescriptions. [11 hours];</p>			
Assessment methods:	<p>Written colloquium, which consists of 2 modules: practical (writing prescriptions) and theoretical (knowledge of topics presented in lectures). In the practical module, students must write at least 2 prescriptions for veterinary drugs. In the theoretical module should answer on 10 descriptive questions. A maximum of 100 percentage points can be obtained from each module. There is no set threshold to pass. The colloquium has two terms. Each student has the right to join two terms, regardless of the result obtained. The result obtained from the latest term cancels the result from previous term of the given test. An absence justified on the first term gives the right to re-schedule the first term. Absence on the second term does not result in setting another term.</p>			

	No extra assessment methods are anticipated. In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.																
Formal documentation of learning outcomes:	eHMS entry. Records collected in the course portfolio i.e. individual records of student results, presence lists, database of written questions, written assessments of the students.																
Elements impelling final grade:	The final grade is influenced by colloquium results, assessment of work on classes and exam grade. The final grade entered into the eHMS protocol is calculated based on the result of the written colloquium. Points from each module of the colloquium are converted into grades according to the following scale:																
	<table border="1"> <thead> <tr> <th>Points</th> <th>Grade</th> </tr> </thead> <tbody> <tr> <td><0-45)</td> <td>0</td> </tr> <tr> <td><45-50)</td> <td>2</td> </tr> <tr> <td><50-65></td> <td>3</td> </tr> <tr> <td>(65-70></td> <td>3,5</td> </tr> <tr> <td>(70-85></td> <td>4</td> </tr> <tr> <td>(85-90></td> <td>4,5</td> </tr> <tr> <td>(90-100></td> <td>5</td> </tr> </tbody> </table>	Points	Grade	<0-45)	0	<45-50)	2	<50-65>	3	(65-70>	3,5	(70-85>	4	(85-90>	4,5	(90-100>	5
	Points	Grade															
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(65-70>	3,5																
(70-85>	4																
(85-90>	4,5																
(90-100>	5																
Then the geometric average of the grades from the modules is calculated. The geometric mean is replaced by the final grade entered into the eHMS protocol as follows: geometric mean value from the range <0; 3) means 2; values in the range <3.0; 3.25) rounded to 3; value in the range <3.25; 3.75) is rounded to 3.5; values in the range <3.75; 4.25) is rounded to 4; value in the range <4.25; 4.75) is rounded to 4.5; values in the range <4.75; 5.0> is rounded to 5.0.																	
Teaching base:	Lecture halls SGGW																
Mandatory and supportive materials : (1) European Pharmacopoea (2) List of authorized medicines (3) Relevant scientific publications, including those of the module coordinator.																	
ANNOTATIONS																	

Quantitative summary of the module:

Estimated number of work hours per student (contact and self-study) essential to achieve presumed learning outcomes of the module - base for quantifying ECTS:					25 h
Hours theoretical:	25	Hours practical:		Hours of field exercises:	Total contact hours: 25
Total ECTS points, accumulated by students during contact learning:					1 ECTS